

Figure 1b

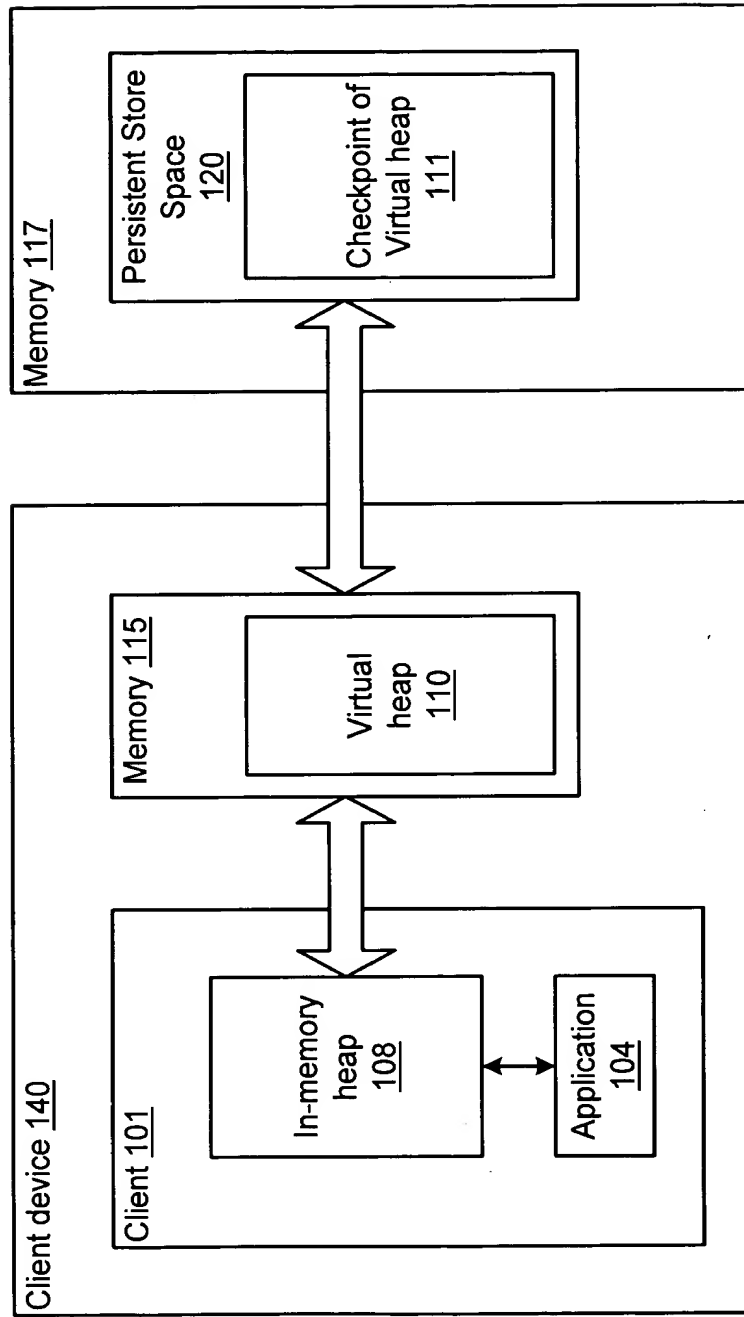


Figure 1c

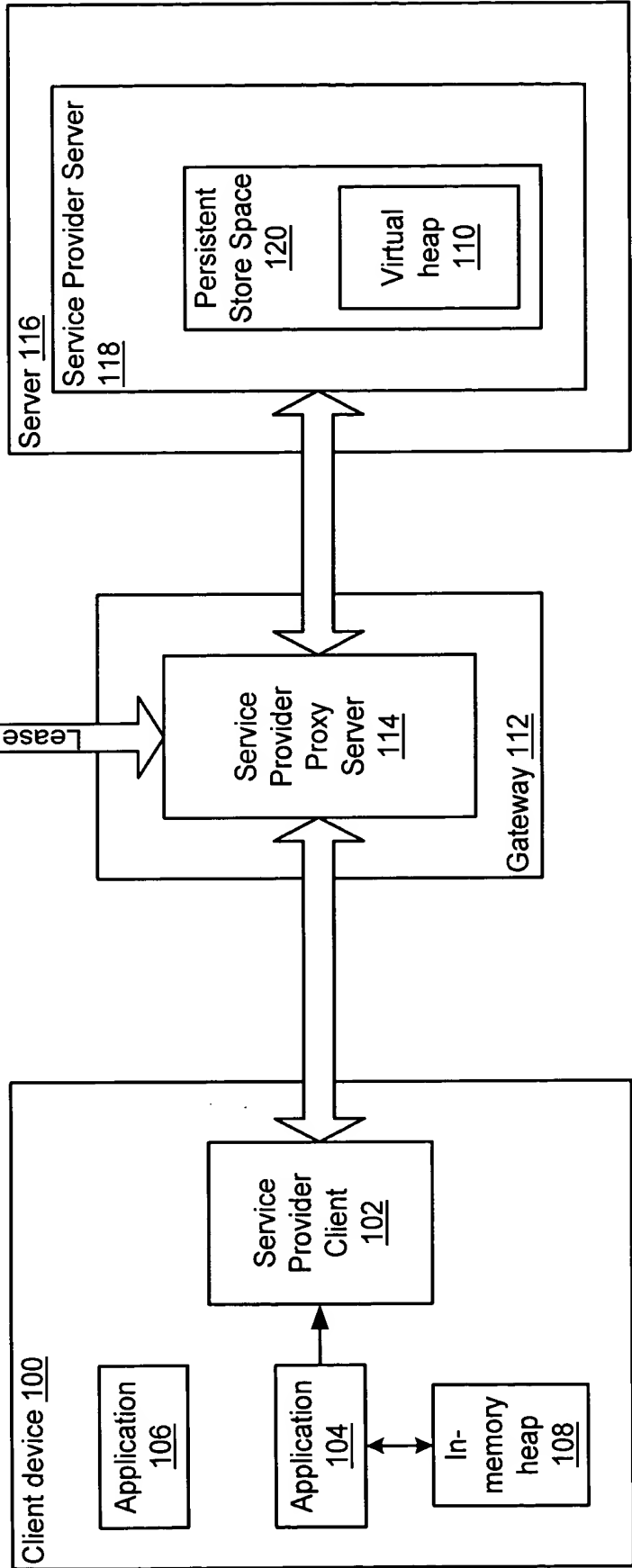


Figure 1d

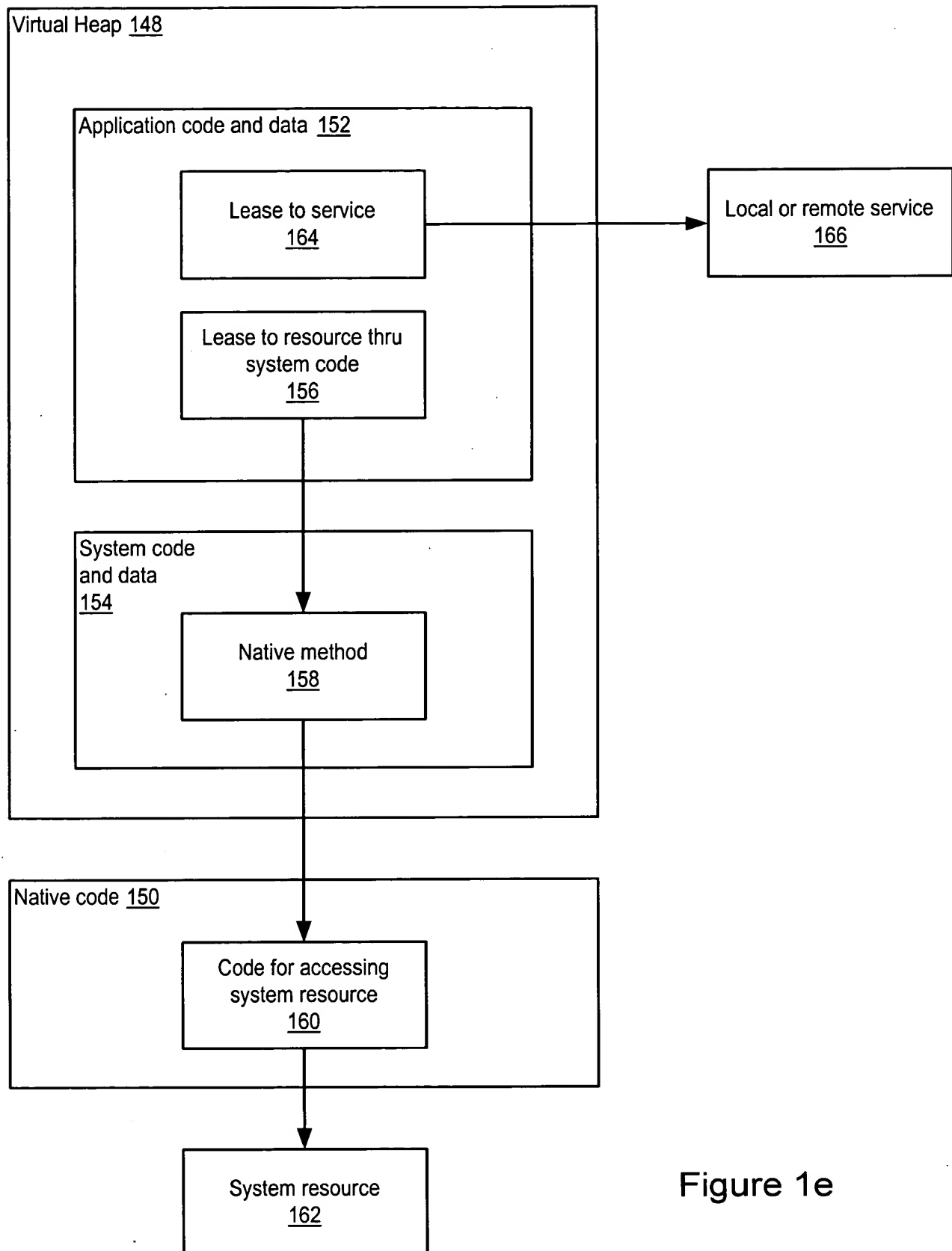


Figure 1e

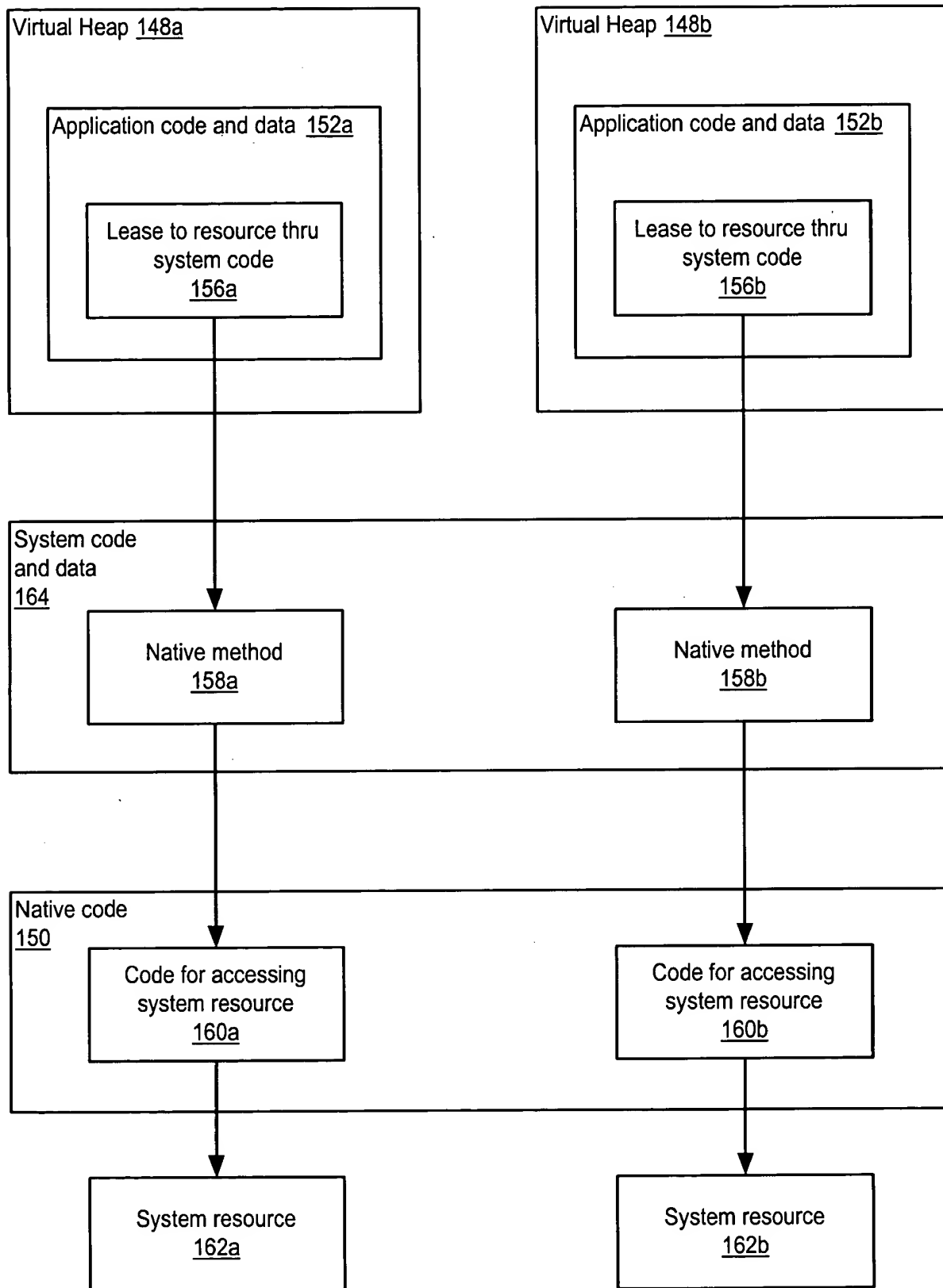


Figure 1f

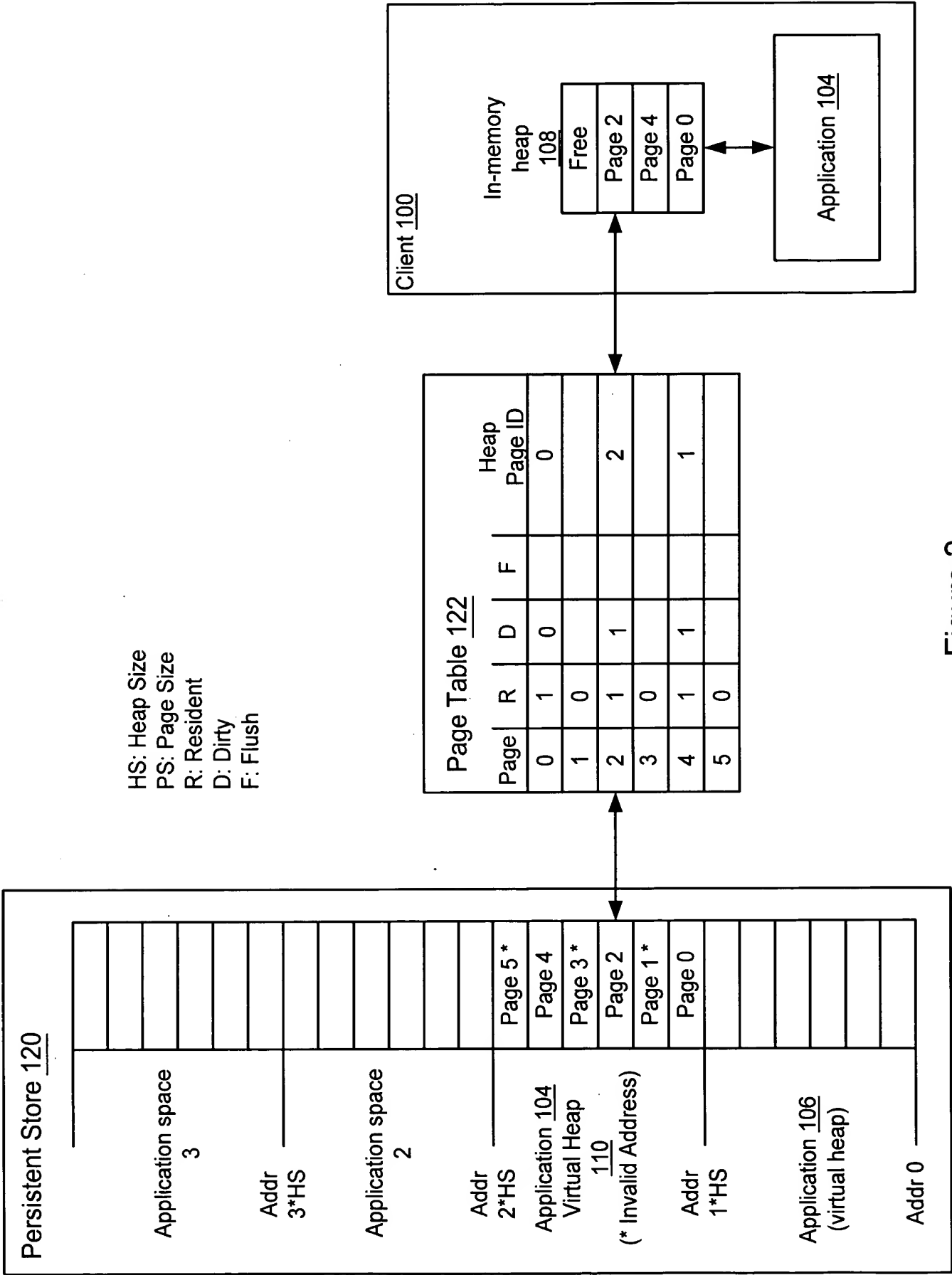


Figure 2

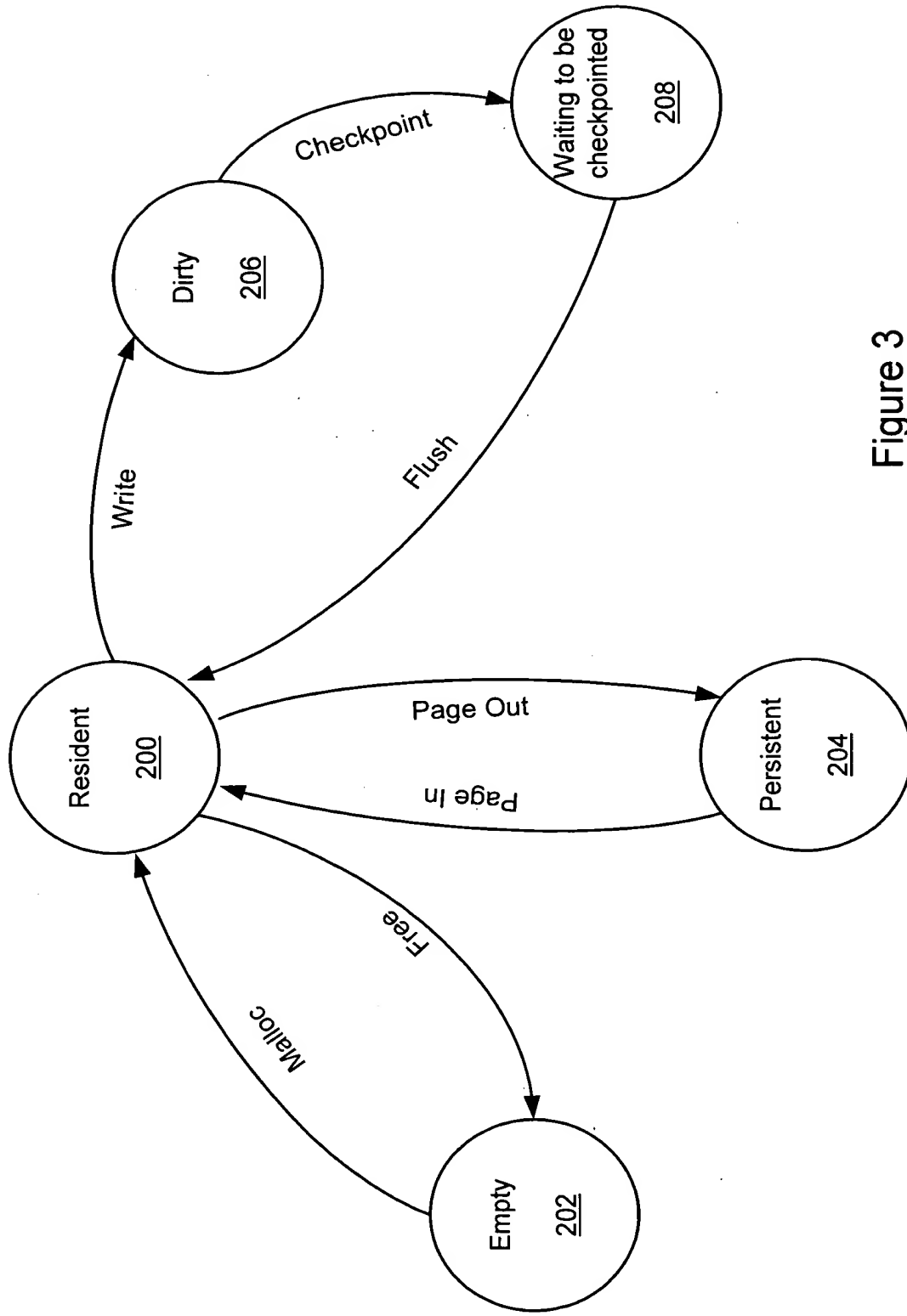


Figure 3

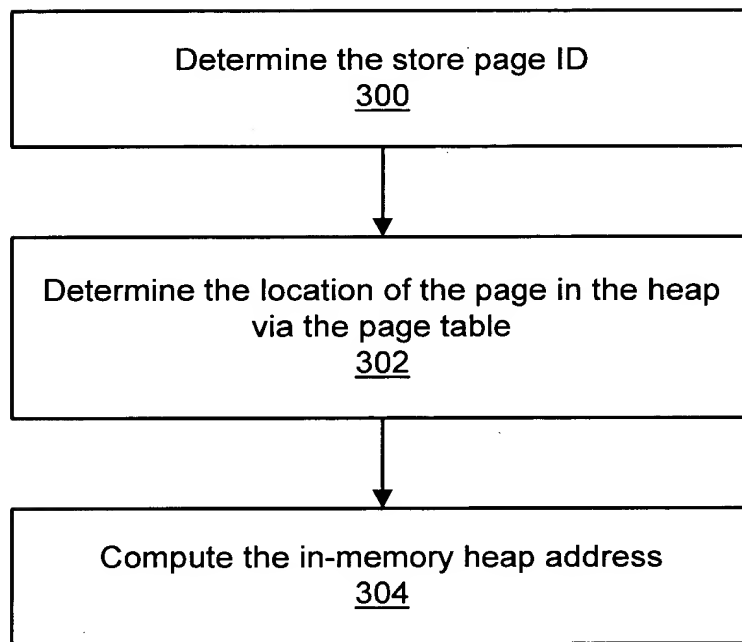


Figure 4

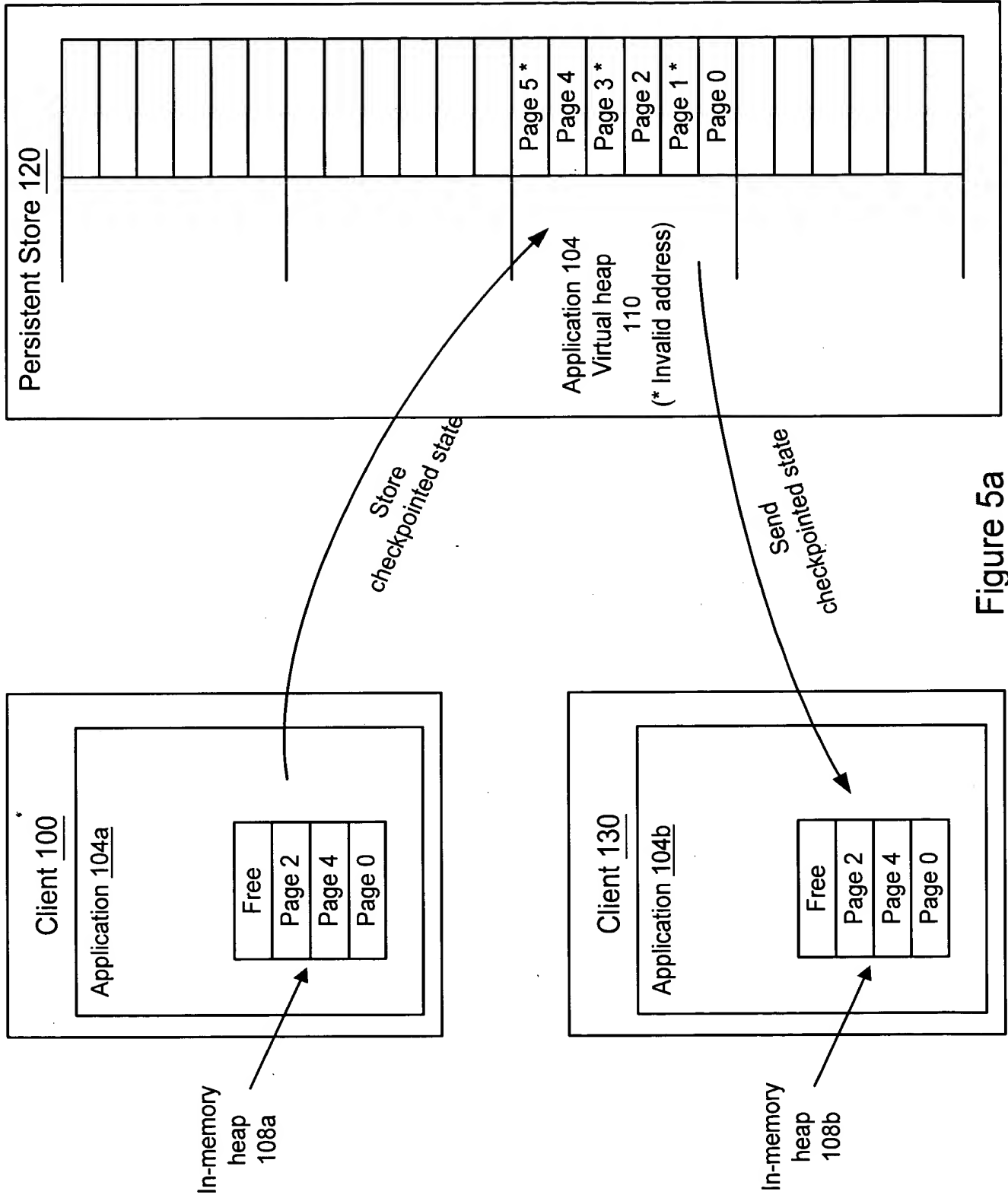


Figure 5a

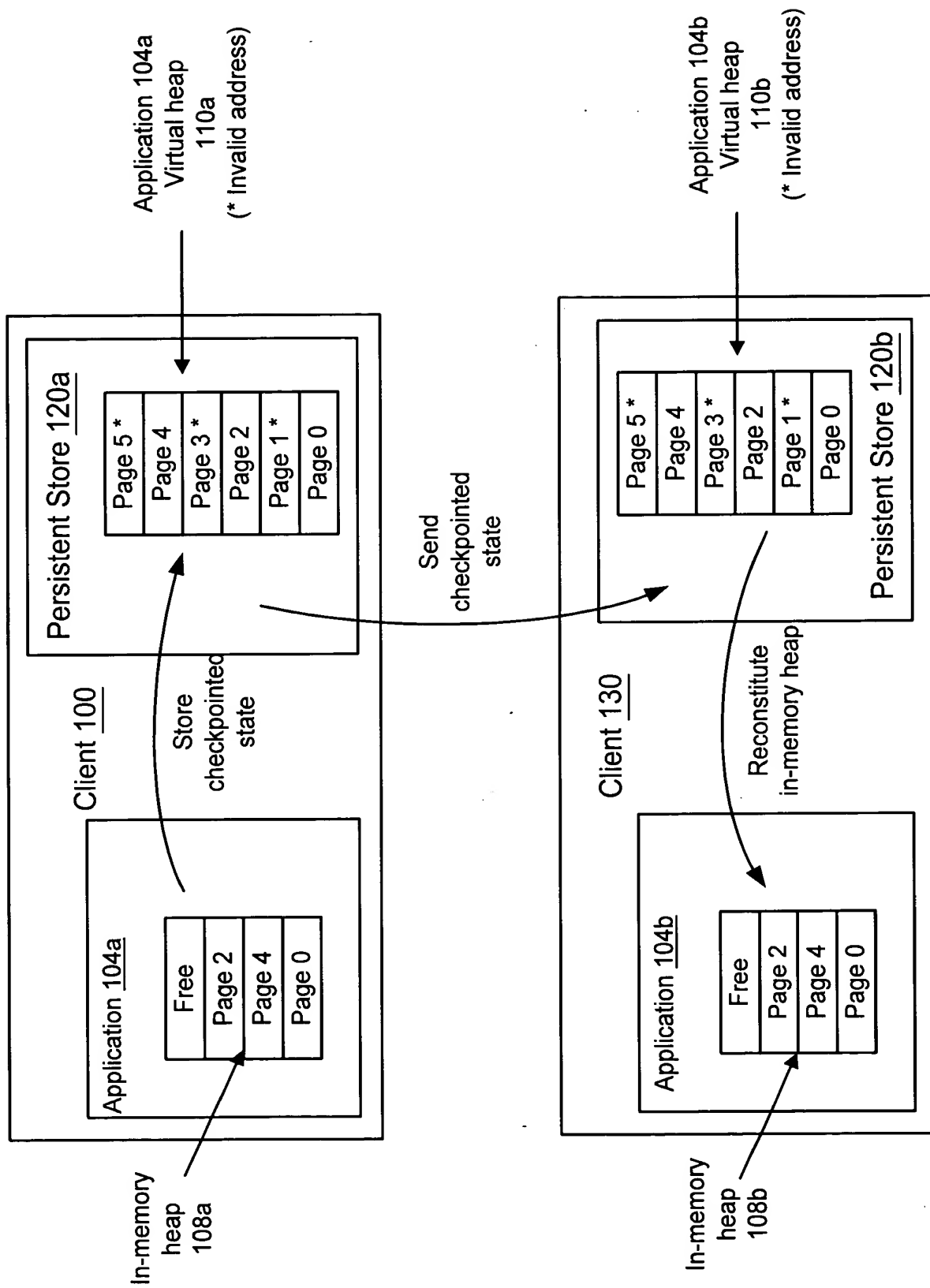


Figure 5b

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graph TD
    320[Store the last checkpointed state of the application to the persistent store  
320] --> 322[Expire external leases to resources  
322]
    322 --> 324[Send the stored last checkpointed state of the application to the node where the application is to migrate  
324]
    324 --> 326[Receive the stored last checkpointed state of the application on the node to which the application is migrating  
326]
    326 --> 328[Commit the send transaction on both the sending and receiving nodes  
328]
    328 --> 330[Reconstitute the last checkpointed state into a new in-memory heap on the node where the application is migrating  
330]
    330 --> 332[Re-establish external leases  
332]
    332 --> 334[Resume the application on the node where it migrated  
334]

```

Figure 6

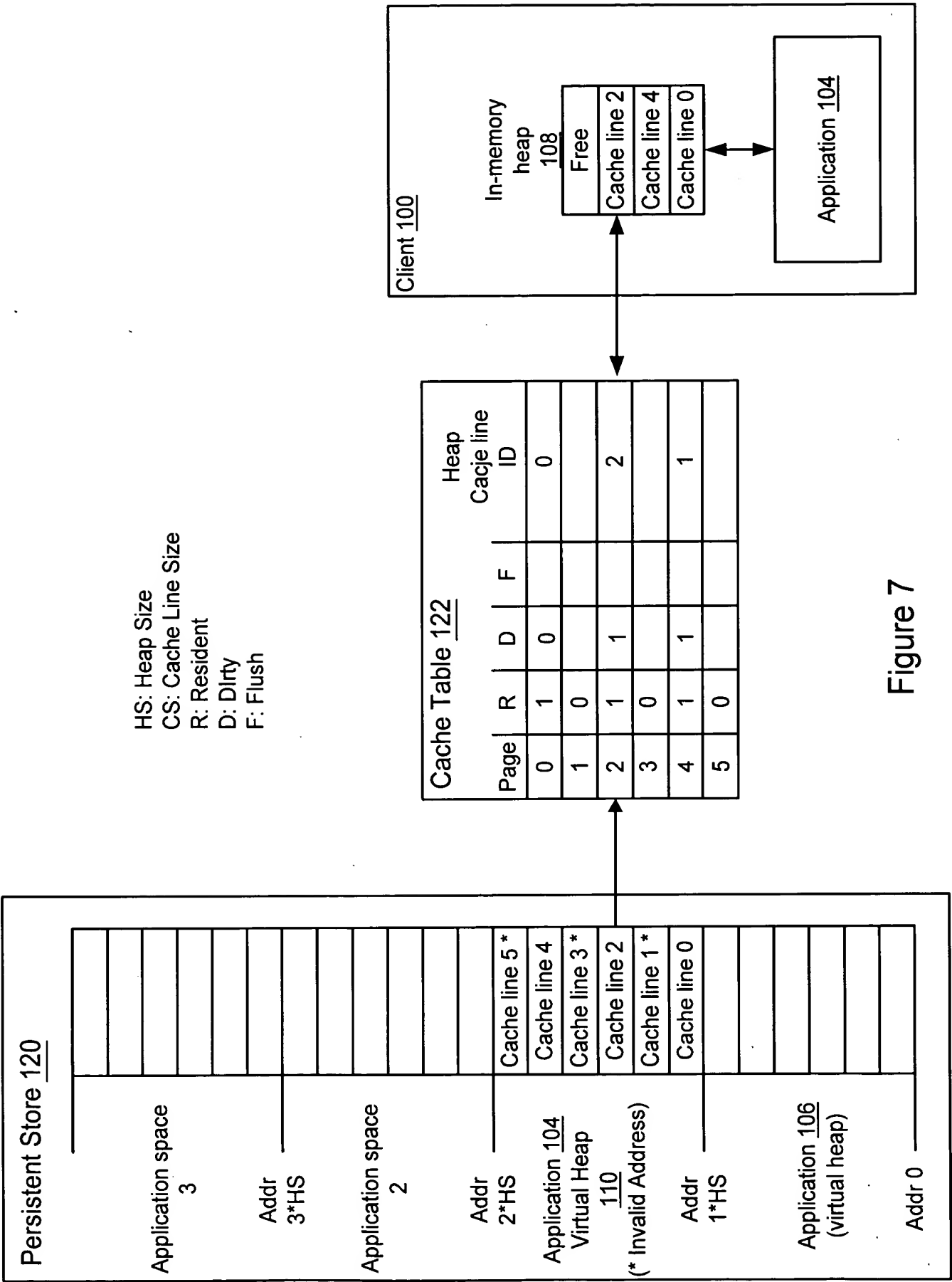


Figure 7

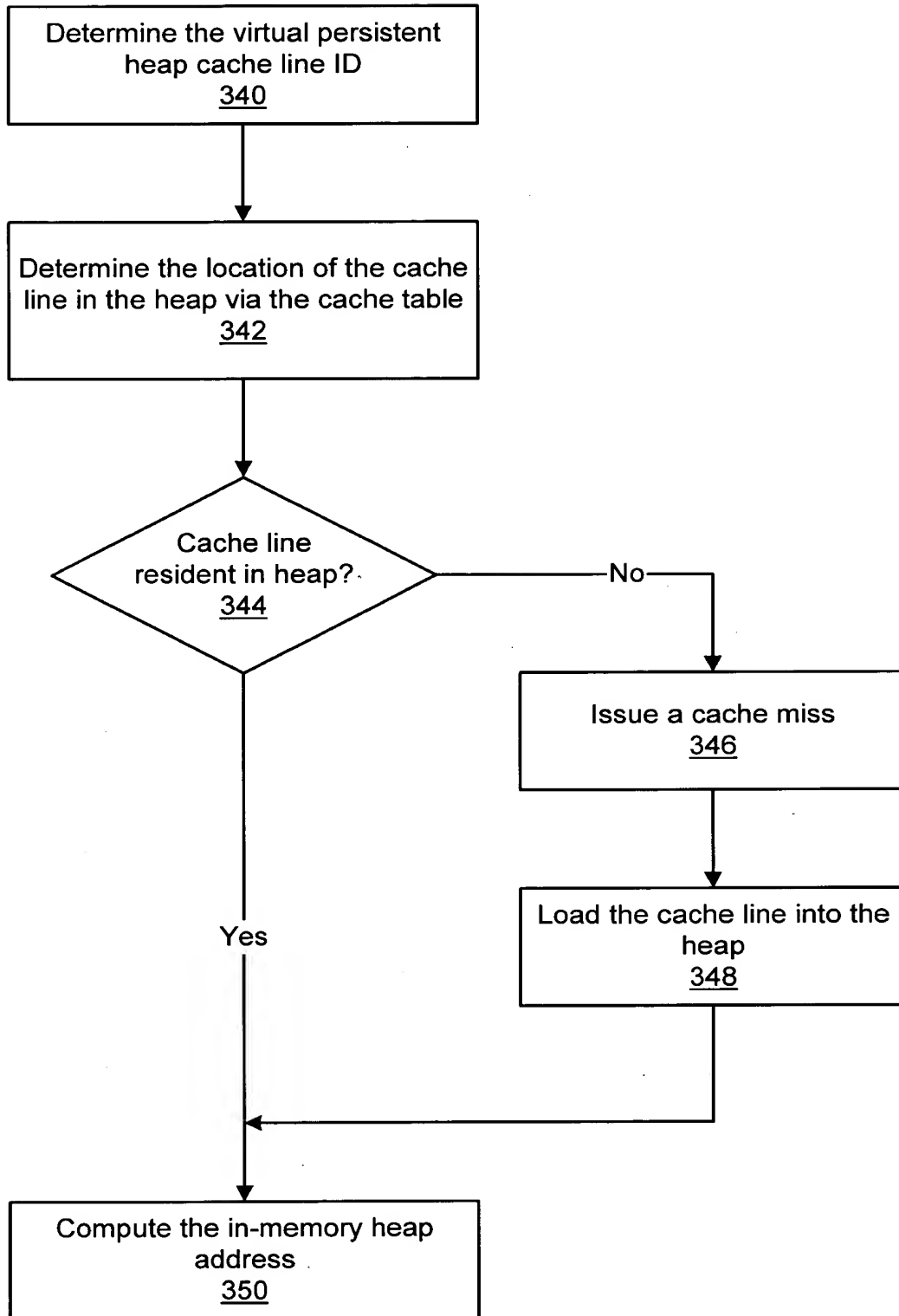


Figure 8

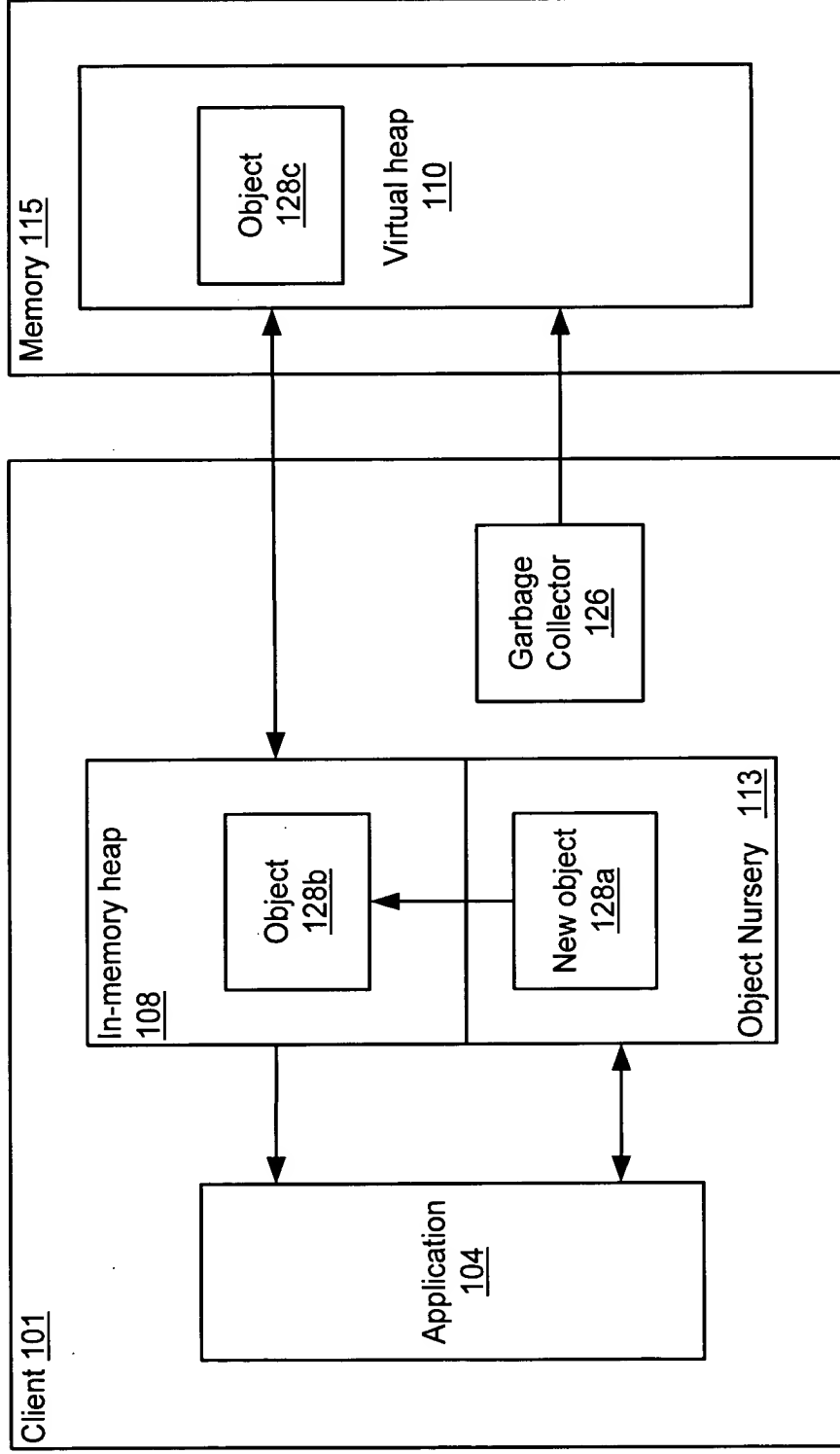


Figure 9

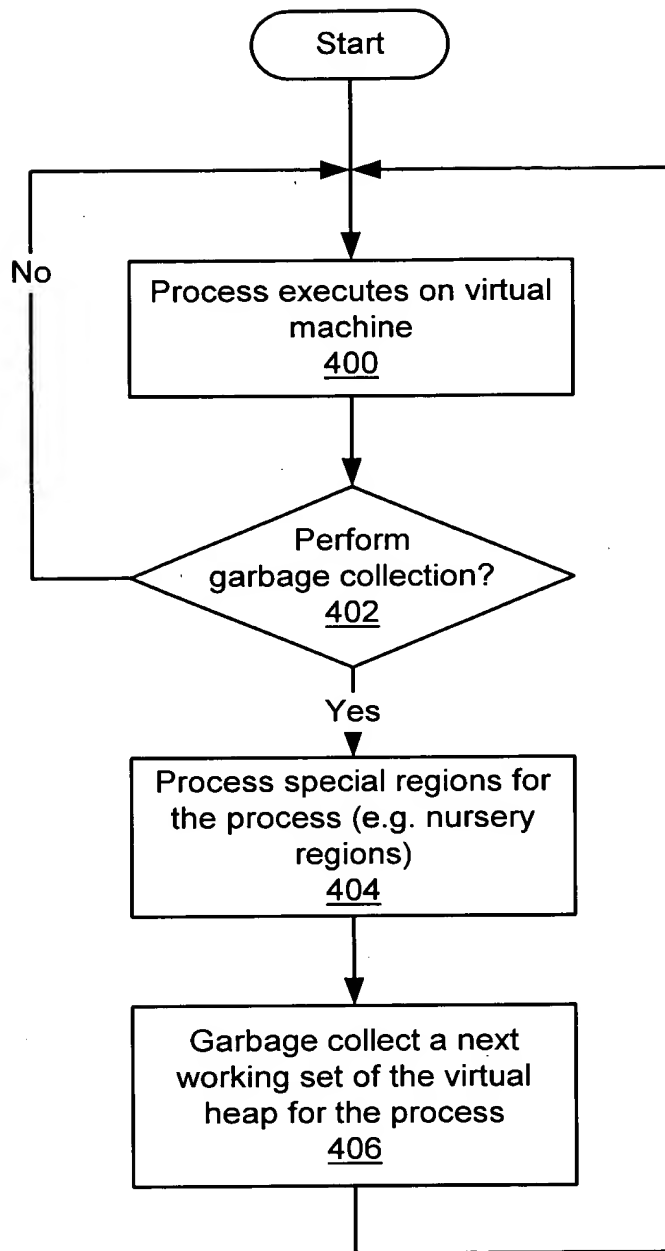


Figure 10a

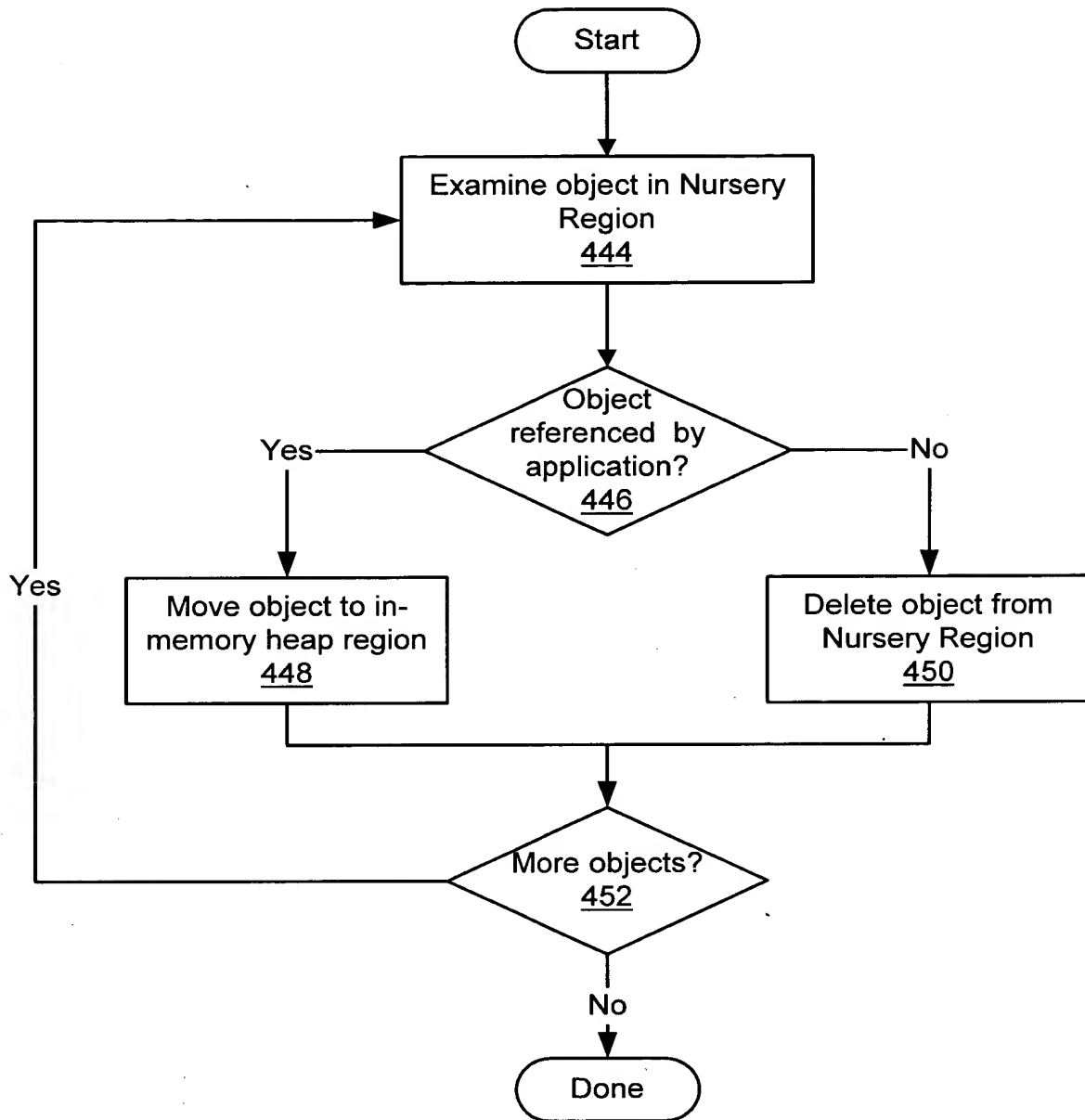


Figure 10b

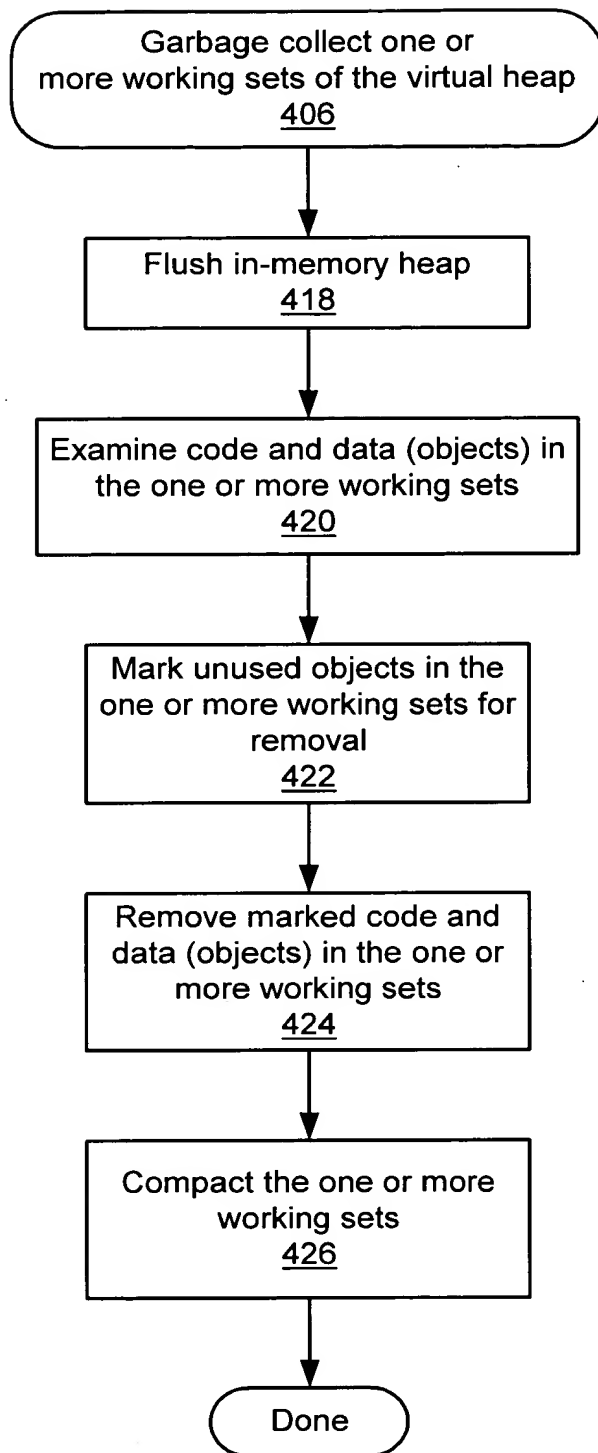


Figure 10c

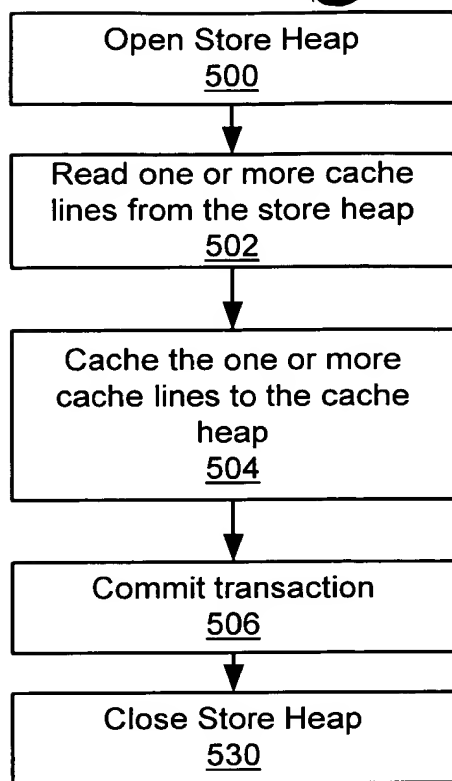


Figure 11a

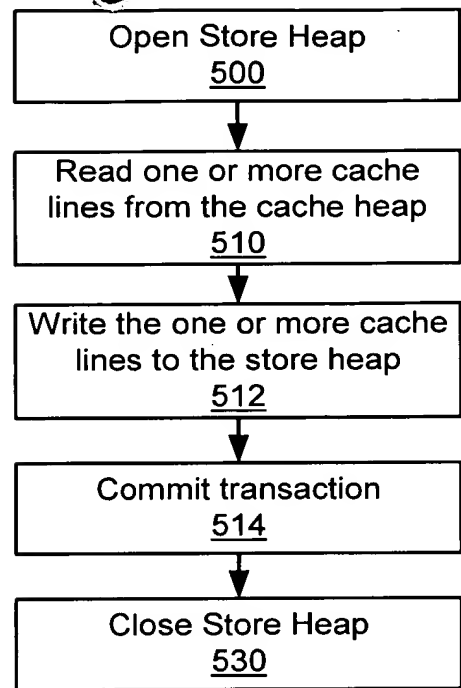


Figure 11b

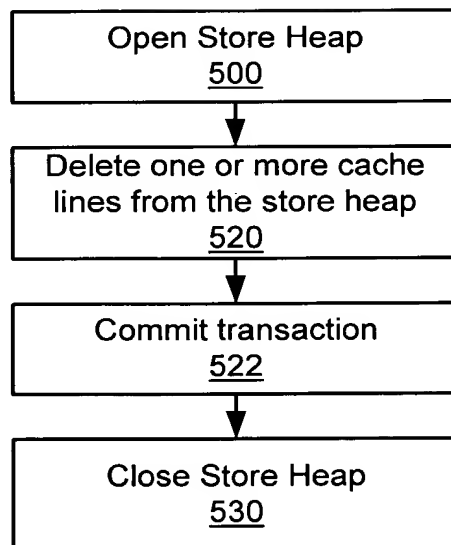


Figure 11c